



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Marvin Windows and Doors
Highway 11 West (P.O. Box 100)
Warroad, MN 56763-0100

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION:

Series "StormPlus IZ4 Clad Casemaster Awning" Aluminum Clad Wood Awning Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1537, titled "Clad Casemaster Awning StormPlus IZ4", sheets 01 through 05 of 05, dated 04/23/08, with revision "A1" dated 10/14/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 11-1021.08 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
5/13/13

NOA No. 13-0205.14
Expiration Date: September 26, 2018
Approval Date: May 09, 2013
Page 1

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 08-0310.11)
2. Drawing No. 1537, titled "Clad Casemaster Awning StormPlus IZ4", sheets 01 through 05 of 05, dated 04/23/08, with revision "A1" dated 10/14/11, prepared by W. W. Schaefer Engineering & Consulting, P.A, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under NOA No. 11-1021.08)

B. TESTS

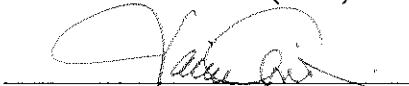
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of alum. Clad wood awning windows, prepared by Architectural Testing, Inc., Test Report No. ATI 77674.01-201-18, dated 02/18/08, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No. 08-0310.11)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of alum. Clad wood awning windows, prepared by Architectural Testing, Inc., Test Report No. ATI 02-33632.01, dated 11/21/01, signed and sealed by Allen N. Reed, P. E.
(Submitted under previous NOA No. 02-0607.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/30/13, signed and sealed by Warren W. Schaefer, P. E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0205.14
Expiration Date: September 26, 2018
Approval Date: May 09, 2013

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

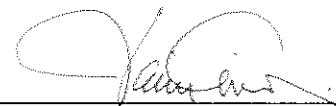
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, and with **ANSI/ AAMA/ NWWDA 101/ I.S.2-97**, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/30/13, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independency, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/30/13, signed and sealed by Warren W. Schaefer, P. E.
3. Laboratory compliance letter for Test Report No. **ATI 77674.01-201-18** issued by Architectural Testing, Inc., dated 02/19/08, signed and sealed by Joseph A. Reed, P. E. *(Submitted under previous NOA No. 08-0310.11)*
4. Test Proposal No. **07-3071** issued by BCCO dated 06/21/07, revised on 07/02/07, signed by Manuel Perez, P. E. *(Submitted under previous NOA No. 08-0310.11)*
5. Laboratory compliance letter for Test Report No. **ATI 02-33632.01** issued by Architectural Testing, Inc., dated 11/21/01, signed and sealed by Allen N. Reed, P. E. *(Submitted under previous NOA No. 02-0607.03)*

G. OTHERS

1. Notice of Acceptance No. **11-1021.08**, issued to Marvin Windows and Doors for their Series "StormPlus IZ4 Clad Casemaster Awning" Aluminum Clad Wood Awning Window – L.M.I., approved on 12/22/11 and expiring on 09/26/13.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0205.14
Expiration Date: September 26, 2018
Approval Date: May 09, 2013

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

SNUBBER REQUIREMENTS TABLE

MAX. FRAME WIDTH	MIN. NO. OF SNUBBERS
40"	2
20"	1

ALLOWABLE DESIGN PRESSURE (SINGLE & MULLED WINDOWS)

+70/-85 PSF

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS, SECURED WITH THREE(3) GS16 1/2" X 1 1/2" STAPLES THROUGH THE HEAD & SILL INTO THE JAMB & ONE(1) 14 GA. 1/2" X 2" STAPLE THROUGH THE JAMB INTO THE HEAD & SILL & SEALED WITH SEALANT.

FRAME CLADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 37A.

SASH CORNERS: SASH MEMBERS ARE MORTISED & TENONED AND SECURED WITH ONE(1) GS16 X 1 1/8" STAPLE.

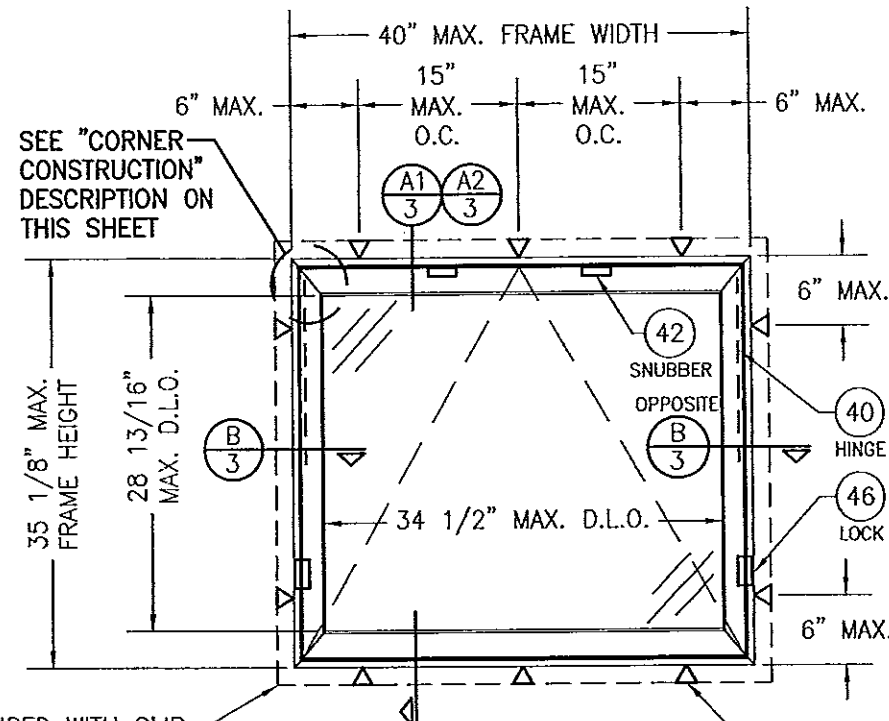
SASH CLADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 37B.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SHEAR SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).			

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1-16	DATE:	04/23/08
NO.	DATE	BY	REVISION DESCRIPTION
A1	10/14/11	W.R.M.	UPDATE TO CURRENT STANDARDS



**EXTERIOR ELEVATION
SINGLE AWNING WINDOW**
SCALE: 3/4" = 1'-0"

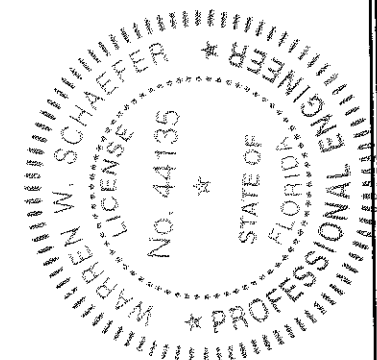
NAILING FIN IS REQUIRED WITH CLIP MOUNT CONDITION AND IS OPTIONAL & MAY BE REMOVED FOR A FRAME SHEAR SCREW MOUNT CONDITION (NAIL FIN SHALL NOT ACT AS A SUBSTITUTE FOR THE FRAME SHEAR SCREWS SPECIFIED).
NOTE: NAIL FIN IS NOT REQUIRED TO BE SEPERATELY ANCHORED

FRAME SHEAR SCREWS OR INSTALLATION CLIPS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

DRAWING TITLE: CLAD CASEMASTER AWNING STORMPLUS IZ4

MANUFACTURER: MARVIN WINDOWS & DOORS
HIGHWAY 11; P.O. BOX 100
WAPROD, MN 56763
800-346-5044

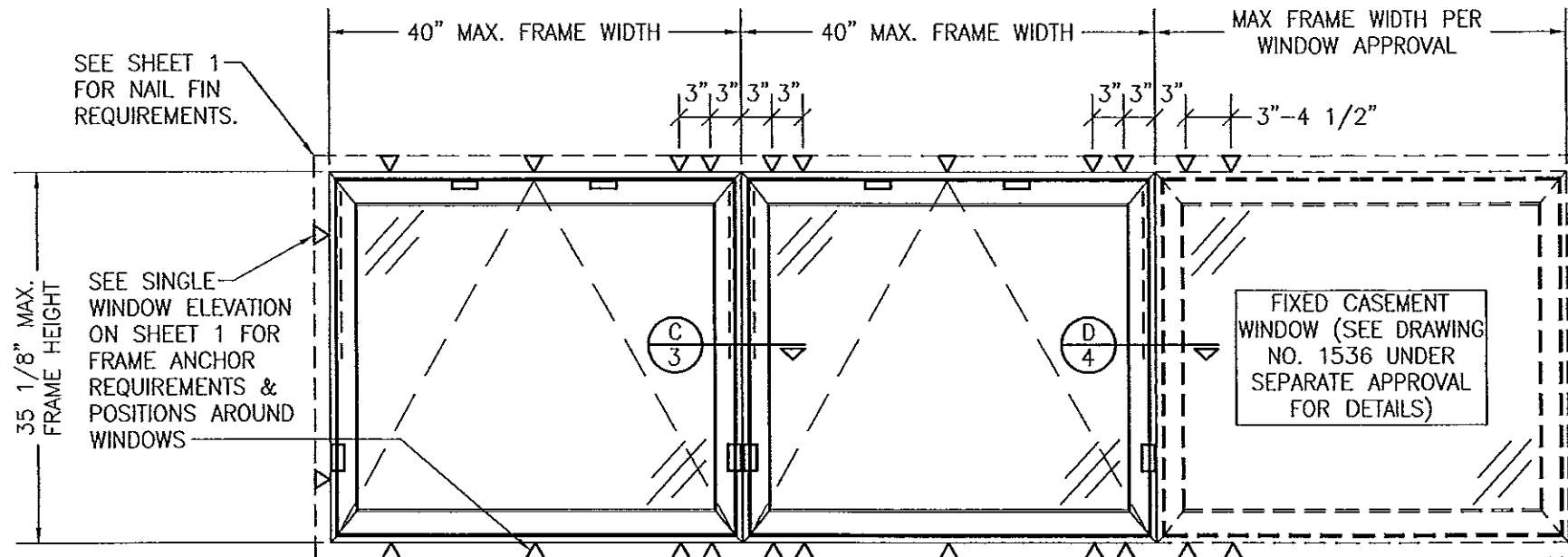
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0205-14
Expiration Date 09/26/2018
By: [Signature]
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1021-08
Expiration Date 09/26/2013
By: [Signature]
Miami Dade Product Control

CERTIFICATION	OCT 14 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1537	REV. A
SHEET NO.	1	OF 5



EXTERIOR ELEVATION
MULTIPLE AWNING/FIXED WINDOW
 SCALE: 3/4" = 1'-0"

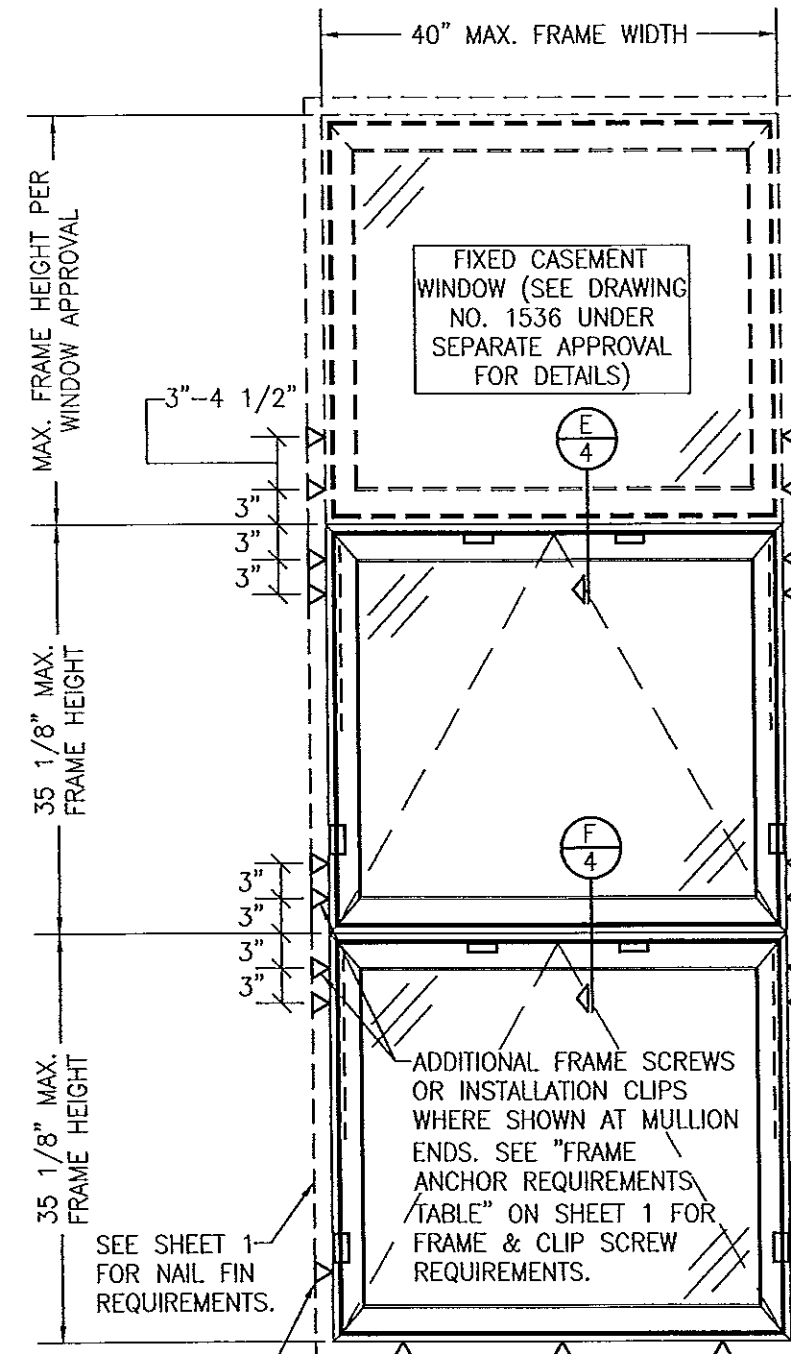
ADDITIONAL FRAME SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR FRAME & CLIP SCREW REQUIREMENTS.

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0205-14
 Expiration Date 09/26/2018
 By *[Signature]*
 Miami Dade Product Control

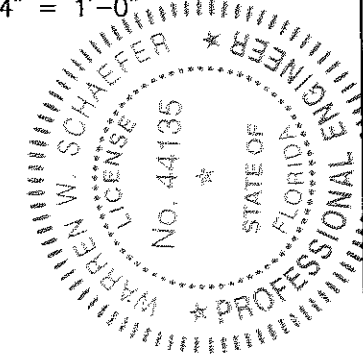
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1021-08
 Expiration Date 07/26/2013
 By *[Signature]*
 Miami Dade Product Control



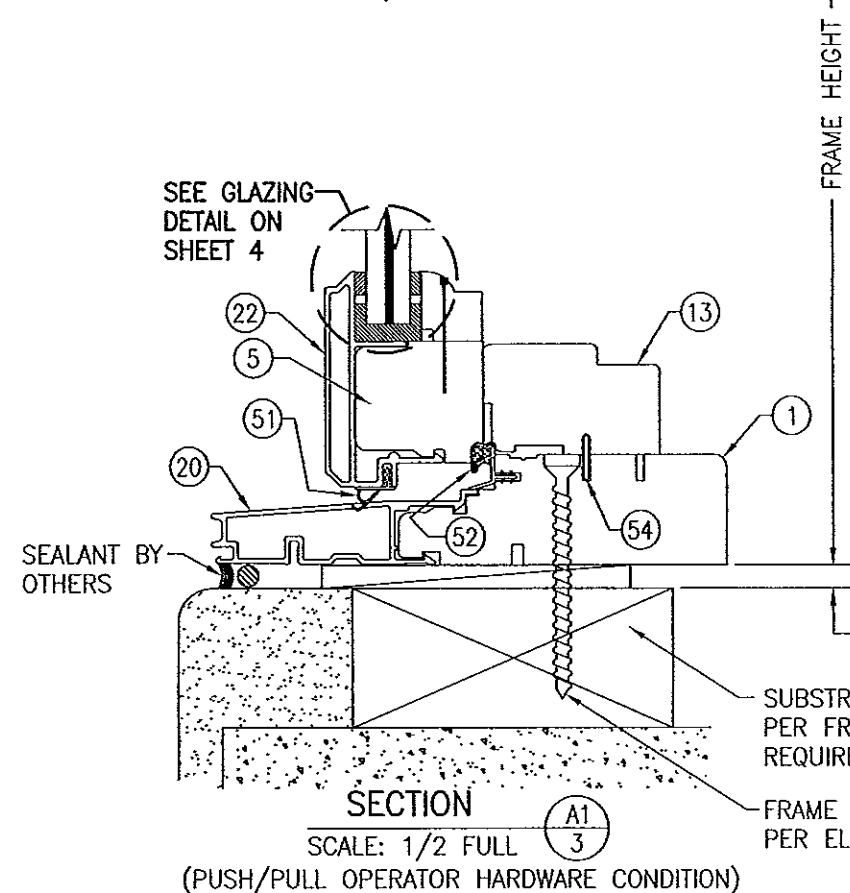
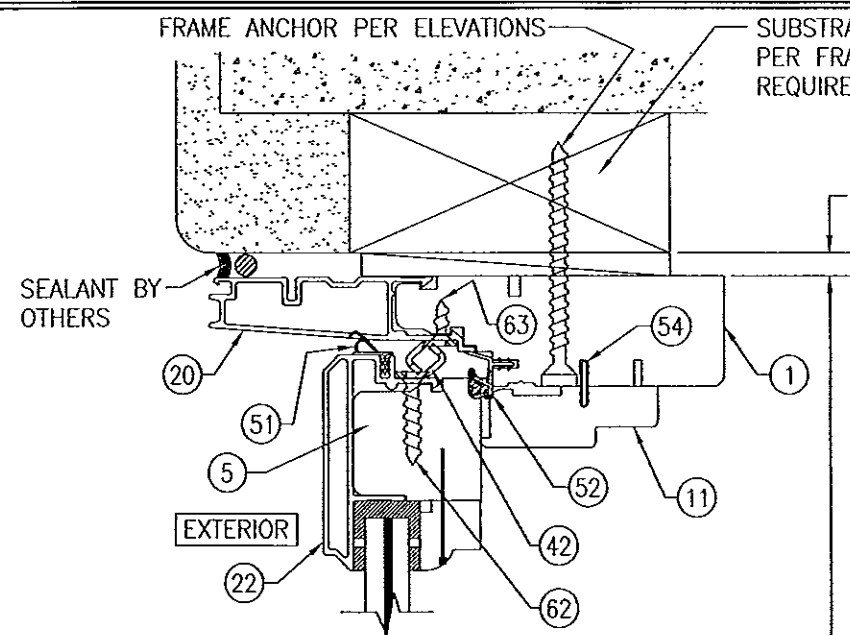
EXTERIOR ELEVATION
MULTIPLE AWNING WITH TRANSOM
 SCALE: 3/4" = 1'-0"

FIXED CASEMENT WINDOW (SEE DRAWING NO. 1536 UNDER SEPARATE APPROVAL FOR DETAILS)

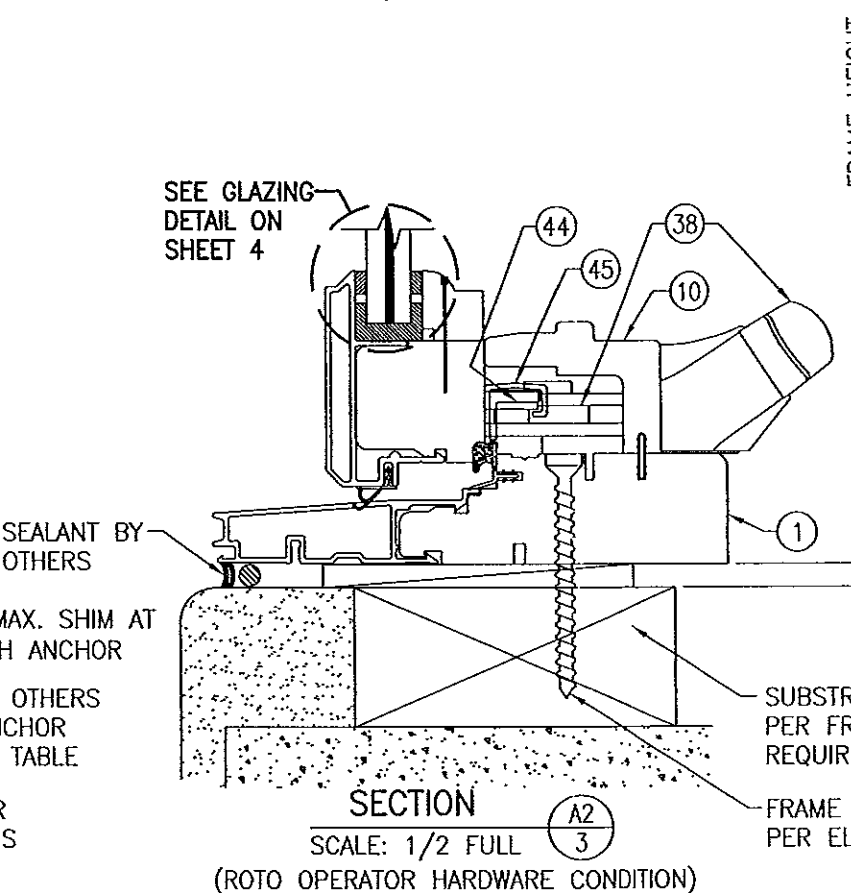
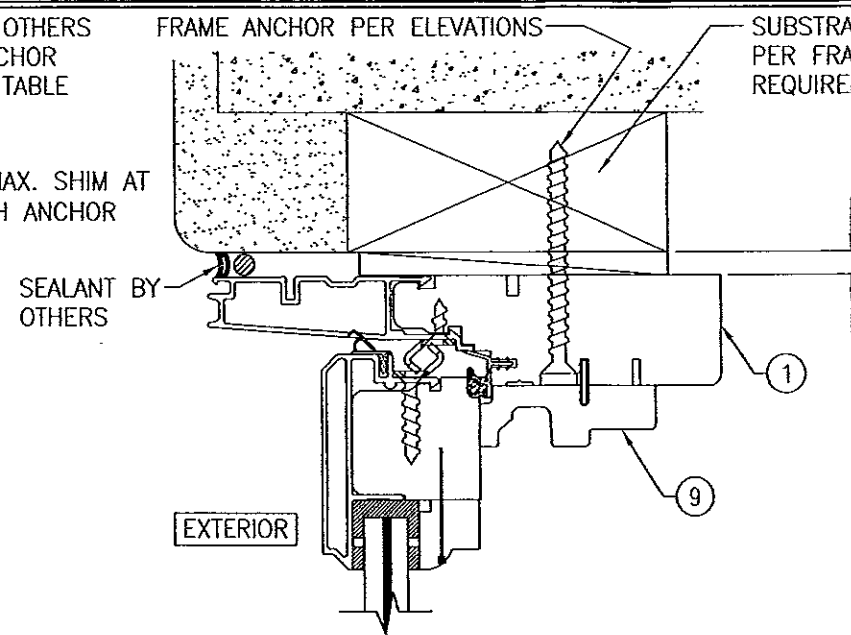
ADDITIONAL FRAME SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR FRAME & CLIP SCREW REQUIREMENTS.



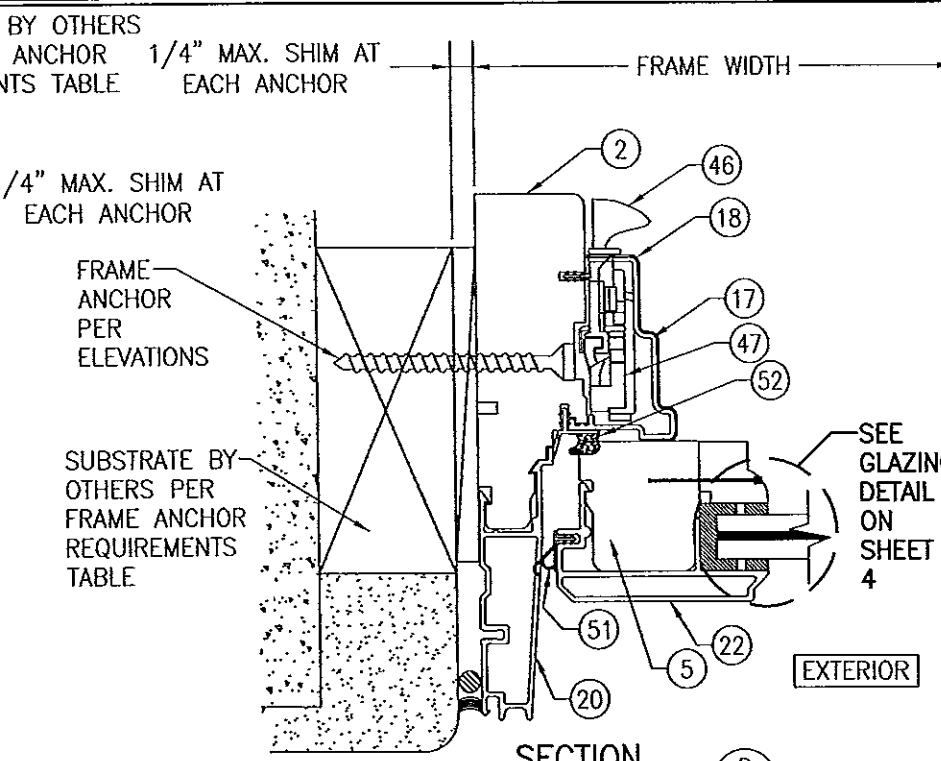
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/23/08
DATE	BY
REVISION DESCRIPTION	NO.
CLAD CASEMASTER AWNING STORMPLUS 124	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION OCT 14 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1537 SHEET NO. 2 OF 5



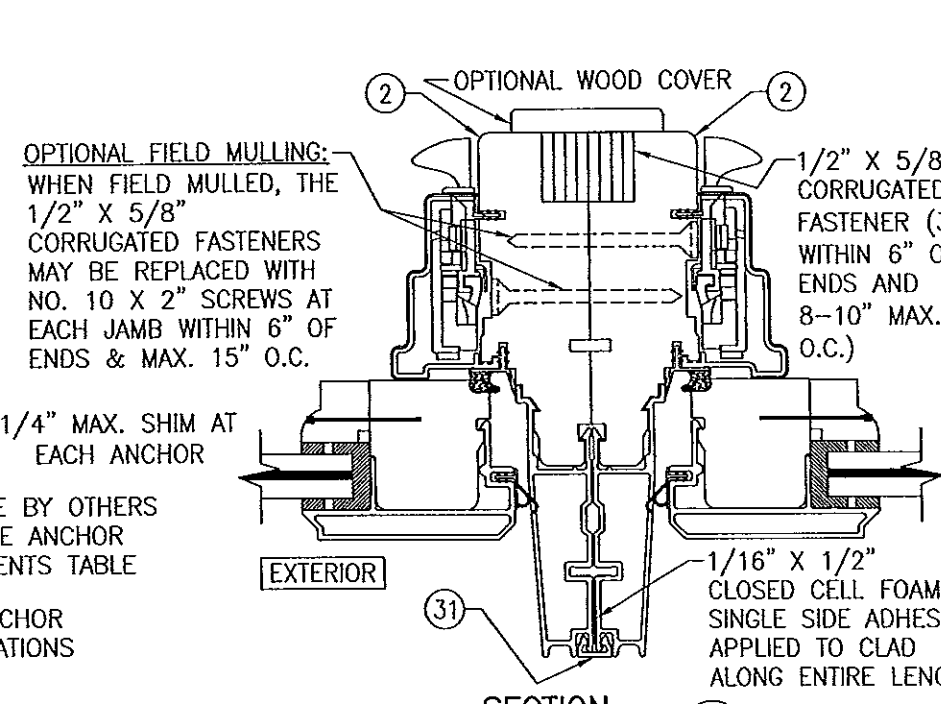
SECTION A1
SCALE: 1/2 FULL
(PUSH/PULL OPERATOR HARDWARE CONDITION)



SECTION A2
SCALE: 1/2 FULL
(ROTO OPERATOR HARDWARE CONDITION)
FOR DETAILS NOT SHOWN SEE SECTION A1/3



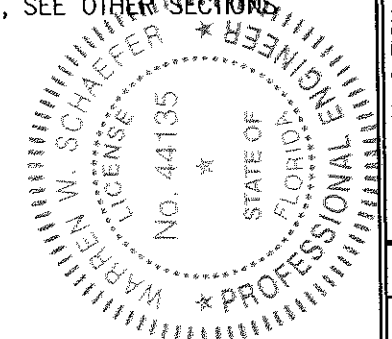
SECTION B
SCALE: 1/2 FULL



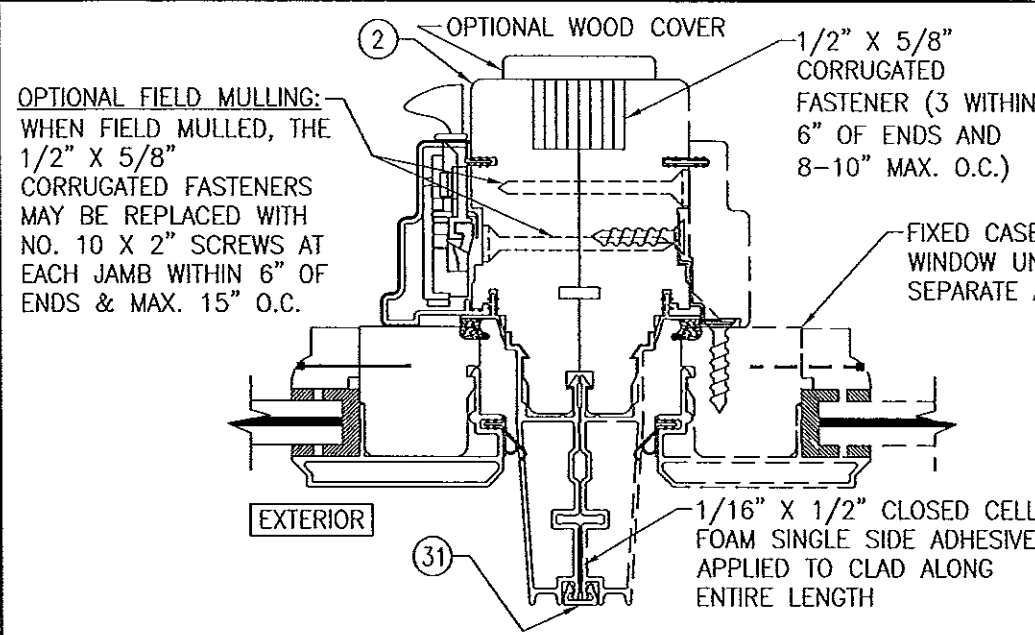
SECTION C
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0205.14
Expiration Date 09/26/2018
By *[Signature]*
Miami Dade Product Control

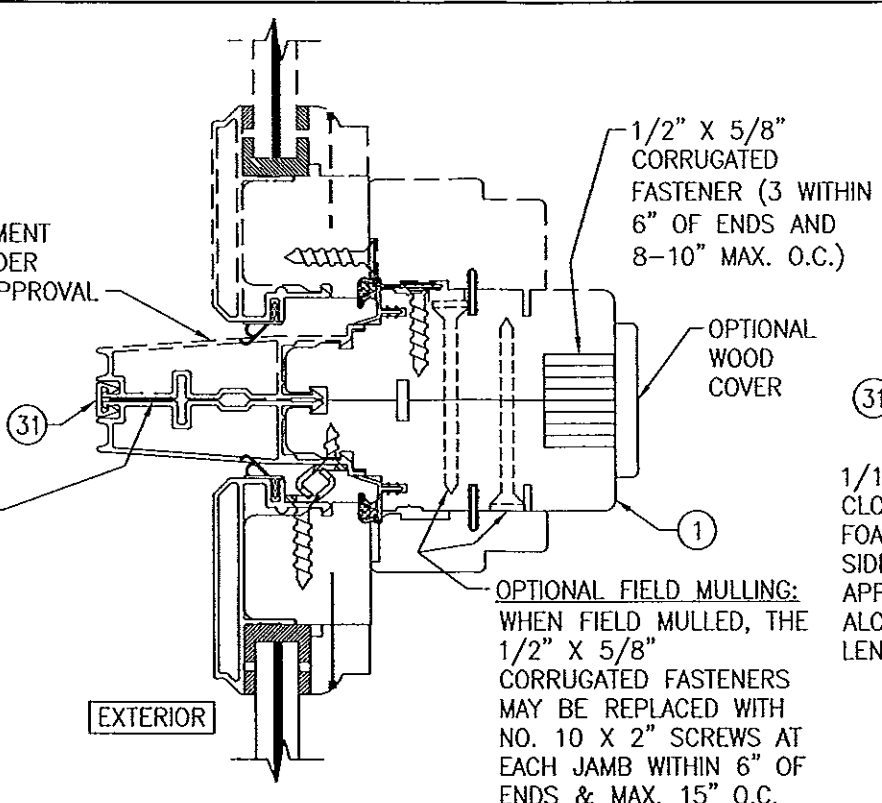
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1021.08
Expiration Date SEPT. 26, 2013
By *[Signature]*
Miami Dade Product Control



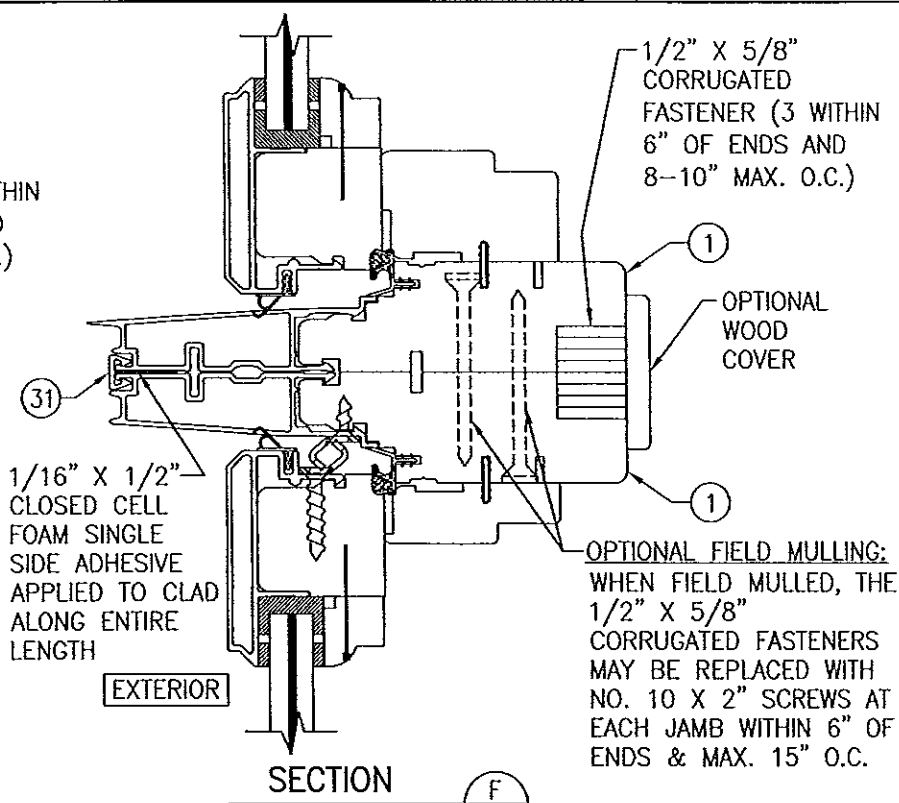
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/23/08
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE CLAD CASEMASTER AWNING STORMPLUS IZ4	
MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION OCT 14 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1537	REV. A
SHEET NO. 3 OF 5	



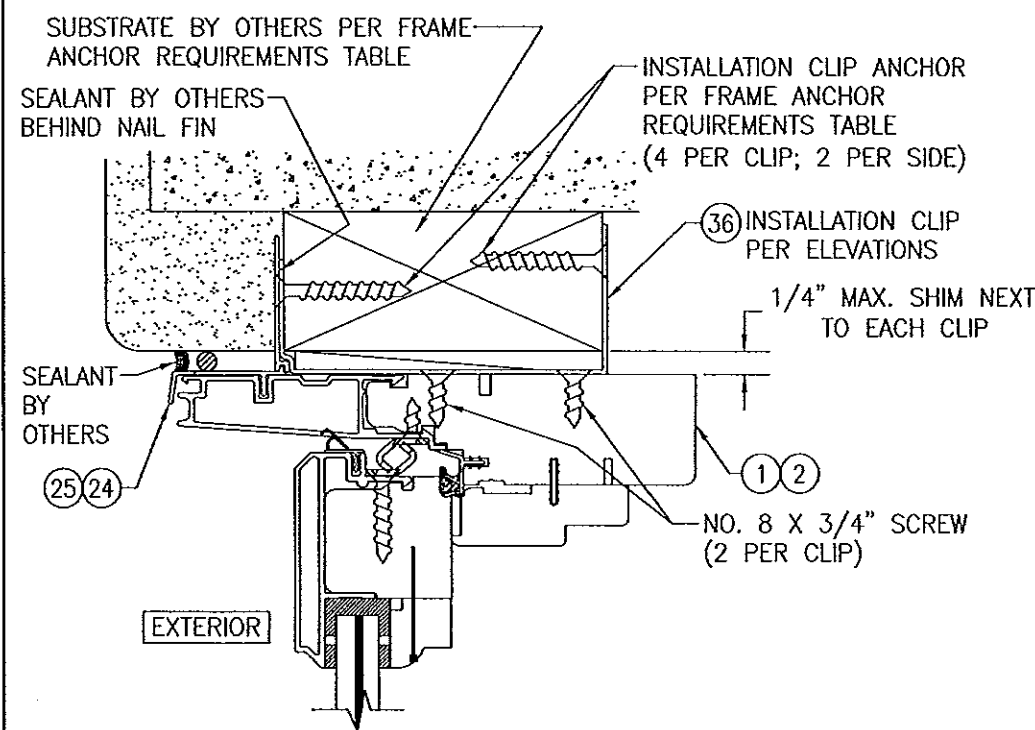
SECTION D
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



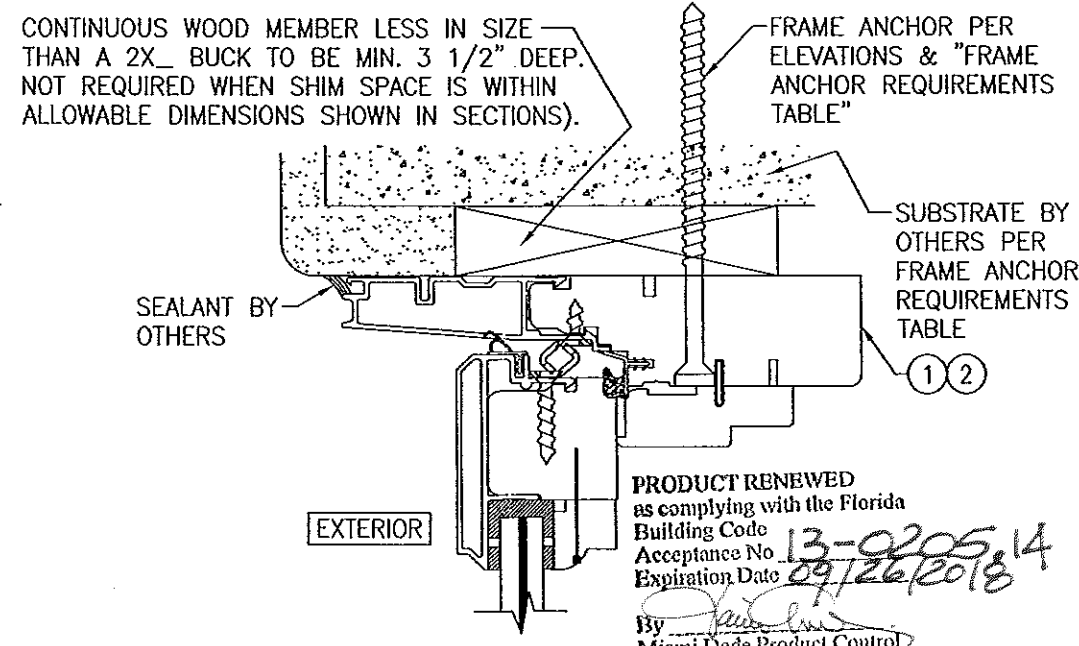
SECTION E
SCALE: 1/2 FULL
FOR DETAILS NOT SHOWN SEE OTHER SECTIONS (PUSH/PULL OPERATOR HARDWARE CONDITION SHOWN, ROTO OPERATOR CONDITION ALSO APPLIES)



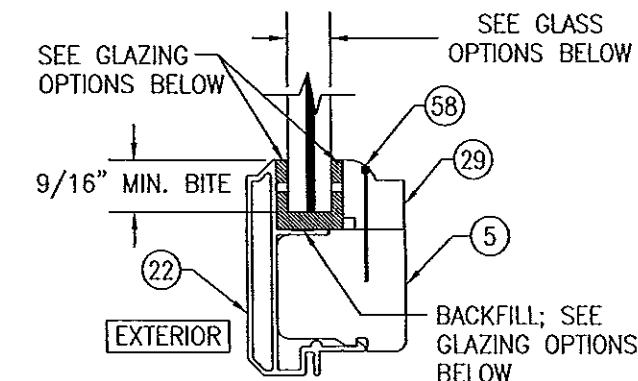
SECTION F
SCALE: 1/2 FULL
FOR DETAILS NOT SHOWN SEE OTHER SECTIONS (PUSH/PULL OPERATOR HARDWARE CONDITION SHOWN, ROTO OPERATOR CONDITION ALSO APPLIES)



OPTIONAL INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED SIMILARLY)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



GLASS OPTIONS

GLASS OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.)

GLASS OPTION B: 9/16" THICK LAMINATED GLASS (1/4" HT.ST./0.09" DUPONT SG/1/4" HT.ST.)

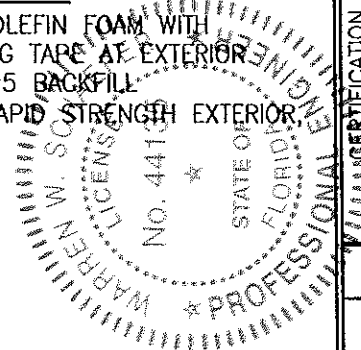
GLASS OPTION C: 3/8" THICK LAMINATED GLASS (5/32" AN./0.090" DUPONT SG/5/32" AN.)

GLAZING OPTIONS

GLAZING OPTION A: POLYOLEFIN FOAM WITH ACRYLIC ADHESIVE GLAZING TAPE AT EXTERIOR & INTERIOR WITH DOW 995 BACKFILL

GLAZING OPTION B: GE RAPID STRENGTH EXTERIOR INTERIOR & BACKFILL

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-1021-08
Expiration Date 08/26/2013
By *Maureen Perry*
Miami Dade Product Control

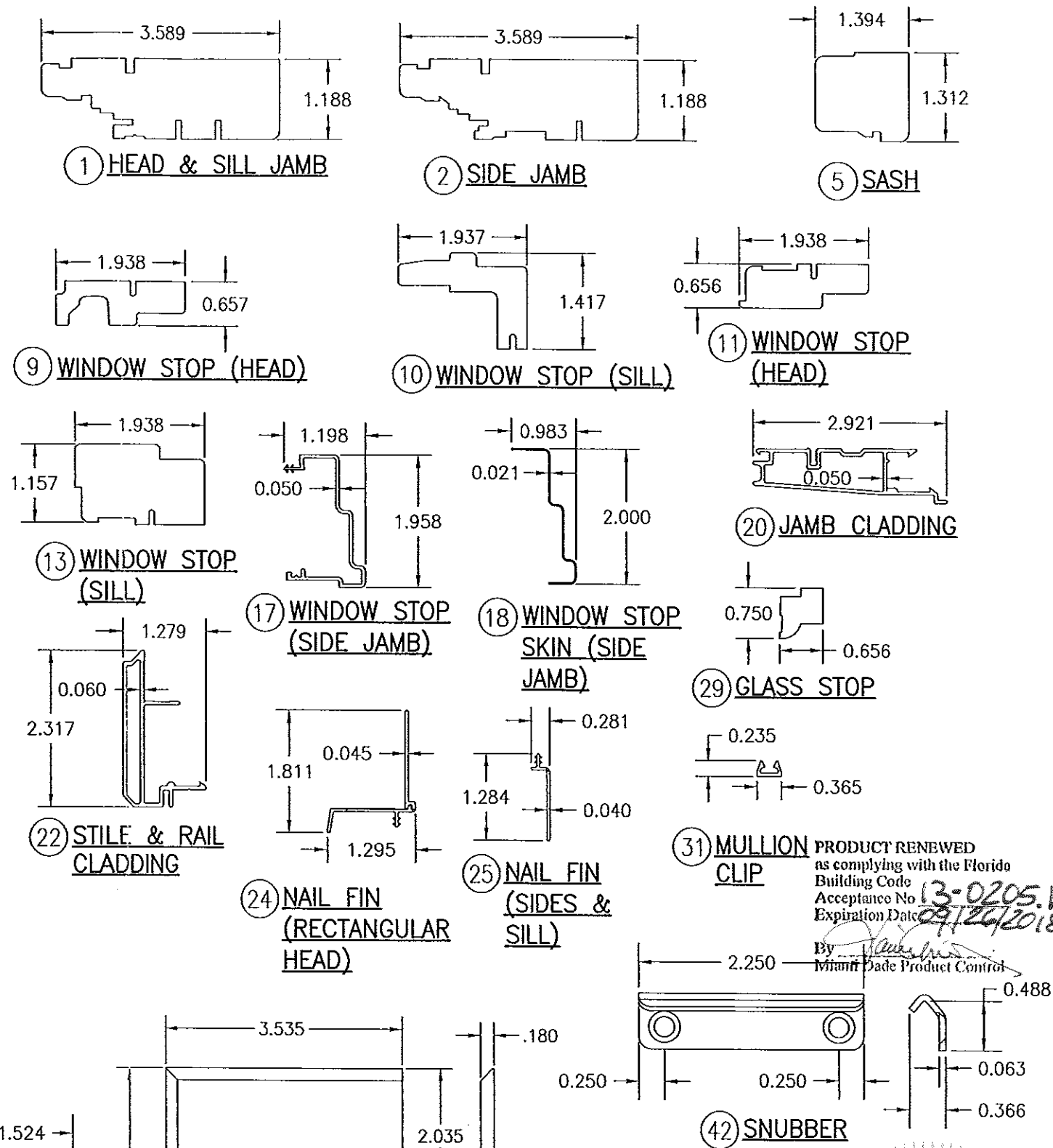
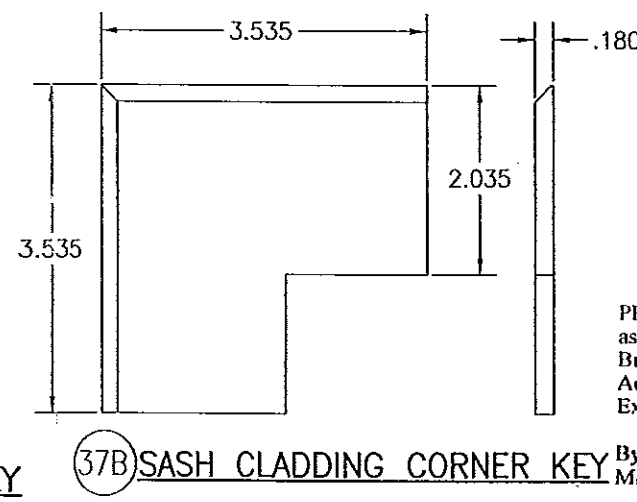
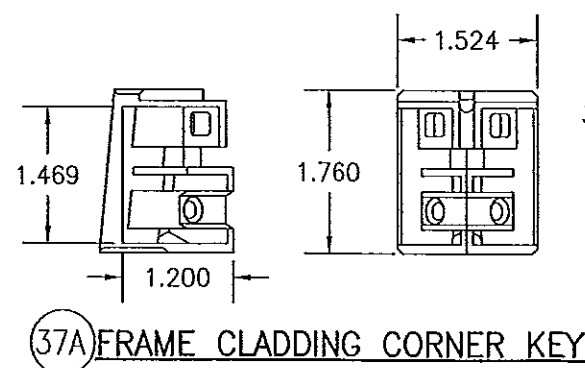
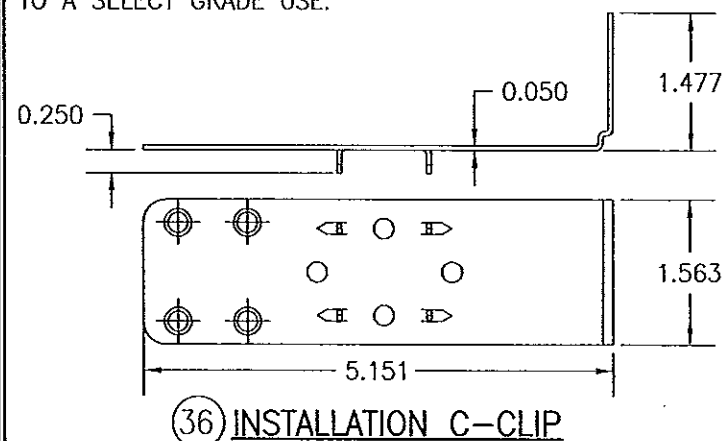


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/23/08	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: CLAD CASEMASTER AWNING STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: MARVIN WINDOWS & DOORS	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		HIGHWAY 11; P.O. BOX 100	
PHONE: 561-744-3424		WARROAD, MN 56763	
800-346-5044			
OCT 14 2011			
WARREN W. SCHAEFER, P.E.			
P.E. NO. 44135			
DRAWING NO. 1537		REV. A	
SHEET NO. 4		OF 5	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB (HEAD & SILL)	* WOOD
2	JAMB (SIDE)	* WOOD
5	SASH (HEAD & SILL)	* WOOD
9	WINDOW STOP (HEAD)	* WOOD
10	WINDOW STOP (SILL)	* WOOD
11	WINDOW STOP (HEAD)	* WOOD
13	WINDOW STOP (SILL)	* WOOD
17	WINDOW STOP (SIDE JAMB)	VINYL
18	WINDOW STOP SKIN (SIDE JAMB)	WOOD VENEER
20	JAMB CLADDING	6063-T5 ALUMINUM
22	STILE & RAIL CLADDING	6063-T5 ALUMINUM
24	NAIL FIN (HEAD)	6063-T5 ALUMINUM
25	NAIL FIN (SIDES & SILL)	6063-T5 ALUMINUM
29	GLASS STOP	* WOOD
31	MULLION CLIP	6063-T5 ALUMINUM
36	INSTALLATION C-CLIP	50 KSI GALV. STEEL
37A	FRAME CLADDING CORNER KEY	NYLON
37B	SASH CLADDING CORNER KEY	5052 ALUMINUM
HARDWARE		
38	OPERATOR WITH HANDLE	TRUTH-SERIES 15 DUAL ARM OPERATOR MW ZINC HANDLE MW PLASTIC HARDWARE COVER
40	SCISSOR HINGE	10" LONG. S.S. THRUTH 13-16-00-119 (LEFT) THRUTH 13-16-00-120 (RIGHT)
42	SNUBBER	50 KSI STEEL
44	ROLLER TRACK	TRUTH SERIES 30706
45	SASH LIMITER	MARVIN #15808598
46	CAMLOCK	TRUTH #16-18
47	SASH LOCK KEEPER	TRUTH #31359
SEALS & SEALANTS		
51	SASH WEATHERSTRIP	RIGID GLASS FILLED POLYPROPYLENE BY INTEK
52	VINYL FRAME WEATHERSTRIP	BY AMSBURY
54	CONNECTING BARB	PVC & GEON C70a0
MISC. FASTENERS		
58	F-18 x 1.125" BRAD NAIL	3" FROM CORNERS & MAX. 8" O.C.
62	NO. 8 X 1" SMS	2 PER SNUBBER
63	NO. 7 X 1/2" SMS	2 PER SNUBBER

* ALL WOOD USED WITH TESTED UNITS IS MIN. GRADE 2 WESTERN PINE. ALTERNATE WOOD SPECIES TO PINE SHALL BE MIN. GRADE 2 WITH "E" = 1200000 PSI MIN. & "G" = 0.43 MIN

NOTE: ALL WOOD IS RECEIVED BY MARVIN WINDOWS & DOORS AS GRADE 2, BUT IS MACHINED BY MARVIN TO A SELECT GRADE USE.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1021.08
Expiration Date SEP 25, 2013
By *Warren W. Schaefer*
Miami Dade Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/23/08	
DATE	BY	REVISION DESCRIPTION	NO.
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CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: OCT 14 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1537		REV. A	
SHEET NO. 5		OF 5	